

ABSTRACT OF THE DISCLOSURE

The invention relates to a method for making an electrochemical cell by forming a curable PFSI electrolyte by mixing a perfluoro sulfonate ionomer (PFSI) with a monomer and a cross linking agent having at least two vinyl functionalities in order to form a mixture, and then removing the solvent of the PFSI by distillation to obtain a curable PFSI electrolyte, disposing the curable PFSI electrolyte on a first electrode and a second electrode forming a precursor, and treating the precursor to cure at least a portion of the curable PFSI electrolyte forming a cured electrolyte composition, and, further, the invention relates to an electrochemical cell made by the method and fuel cell made by the method.